

Paul G Sanders

List of Publications by Year in descending order

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30
papers

561
citations

623574

14
h-index

642610

23
g-index

31
all docs

31
docs citations

31
times ranked

521
citing authors

#	ARTICLE	IF	CITATIONS
1	A Low-Cost Open-Source Metal 3-D Printer. IEEE Access, 2013, 1, 803-810.	2.6	102
2	Structure-property relationships of common aluminum weld alloys utilized as feedstock for GMAW-based 3-D metal printing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 673, 511-523.	2.6	58
3	In situ formation of substrate release mechanisms for gas metal arc weld metal 3-D printing. Journal of Materials Processing Technology, 2015, 226, 50-59.	3.1	54
4	Free and Open-source Control Software for 3-D Motion and Processing. Journal of Open Research Software, 2016, 4, 2.	2.7	37
5	The Diffusion Coefficient of Scandium in Dilute Aluminum-Scandium Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 3800-3805.	1.1	32
6	Substrate Release Mechanisms for Gas Metal Arc Weld 3D Aluminum Metal Printing. 3D Printing and Additive Manufacturing, 2014, 1, 204-209.	1.4	26
7	Micro-addition of Fe in highly alloyed Cu-Ti alloys to improve both formability and strength. Materials and Design, 2022, 213, 110340.	3.3	24
8	Slicer and process improvements for open-source GMAW-based metal 3-D printing. Additive Manufacturing, 2017, 18, 110-120.	1.7	23
9	Improved model and experimental validation of deformation in fused filament fabrication of polylactic acid. Progress in Additive Manufacturing, 2018, 3, 193-203.	2.5	22
10	Precipitate Evolution and Strengthening in Supersaturated Rapidly Solidified Al-Sc-Zr Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 2030-2039.	1.1	19
11	Low-Cost Open-Source Voltage and Current Monitor for Gas Metal Arc Weld 3D Printing. Journal of Sensors, 2015, 2015, 1-8.	0.6	18
12	The Natural Aging Effect on Hardenability in Al-Mg-Si: A Complex Interaction between Composition and Heat Treatment Parameters. Metals, 2018, 8, 309.	1.0	18
13	Design of an Eta-Phase Precipitation-Hardenable Nickel-Based Alloy with the Potential for Improved Creep Strength Above 1023ÅK (750ÅÅ°C). Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2947-2955.	1.1	17
14	Open source arc analyzer: Multi-sensor monitoring of wire arc additive manufacturing. HardwareX, 2020, 8, e00137.	1.1	16
15	Integrated Voltage”Current Monitoring and Control of Gas Metal Arc Weld Magnetic Ball-Jointed Open Source 3-D Printer. Machines, 2015, 3, 339-351.	1.2	14
16	Applications of Open Source GMAW-Based Metal 3-D Printing. Journal of Manufacturing and Materials Processing, 2018, 2, 18.	1.0	12
17	Hypoeutectic Aluminum”Silicon Alloy Development for GMAW-Based 3-D Printing Using Wedge Castings. International Journal of Metalcasting, 2017, 11, 843-856.	1.5	11
18	Novel non-destructive technique for detecting the weld fusion zone using a filler wire of high x-ray contrast. NDT and E International, 2021, 124, 102537.	1.7	10

#	ARTICLE	IF	CITATIONS
19	Precipitate Characterization in Model Al-Zn-Mg-(Cu) Alloys Using Small-Angle X-ray Scattering. <i>Metals</i> , 2020, 10, 959.	1.0	7
20	The Need for a New Approach to Soldering in High Pressure Die Casting. <i>International Journal of Metalcasting</i> , 2021, 15, 391-397.	1.5	7
21	Solute-Derived Thermal Stabilization of Nano-sized Grains in Melt-Spun Aluminum. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 4287-4300.	1.1	6
22	Coarsening behavior of precipitate Al ₃ (Sc,Zr) in supersaturated Al-Sc-Zr alloy via melt spinning and extrusion. <i>Journal of Materials Science</i> , 2021, 56, 11114-11136.	1.7	6
23	Rolling contact fatigue study of chilled and quenched/tempered ductile iron compared with AISI 1080 steel. <i>Wear</i> , 2021, 478-479, 203890.	1.5	6
24	High-Temperature Fatigue of a Hybrid Aluminum Metal Matrix Composite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 501-509.	1.1	4
25	High ramp rate thermogravimetric analysis of zirconium(II) hydride and titanium(II) hydride. <i>Thermochimica Acta</i> , 2015, 616, 1-8.	1.2	3
26	Effect of Zr Additions on Thermal Stability of Al-Cu Precipitates in As-Cast and Cold Worked Samples. <i>Metals</i> , 2018, 8, 331.	1.0	3
27	Effect of Cobalt Additions on the Microstructure and Mechanical Properties of As-Cast Thin-Wall Ductile Iron. <i>International Journal of Metalcasting</i> , 2021, 15, 417-432.	1.5	2
28	Anomalous strain-energy-driven macroscale translation of grains during nonisothermal annealing. <i>Physical Review Materials</i> , 2021, 5, .	0.9	2
29	Influence of Cobalt in the Tensile Properties of ½ Inch Ductile Iron Y-blocks. <i>International Journal of Metalcasting</i> , 2021, 15, 433-446.	1.5	1
30	Influence of Core Variables on Aluminum Casting Dimensions in Semi-permanent Molds. <i>International Journal of Metalcasting</i> , 2023, 17, 604-614.	1.5	1